

MADROÑO

A WEST AMERICAN JOURNAL OF BOTANY

VOLUME XXXVI

1989

BOARD OF EDITORS

Class of:

1989—FRANK VASEK, University of California, Riverside
BARBARA ERTTER, University of California, Berkeley

1990—STEVEN TIMBROOK, Ganna Walska Lotusland Foundation, Montecito, CA
THOMAS R. VAN DEVENDER, Arizona-Sonora Desert Museum, Tucson

1991—JAMES HENRICKSON, California State University, Los Angeles
WAYNE R. FERREN, University of California, Santa Barbara

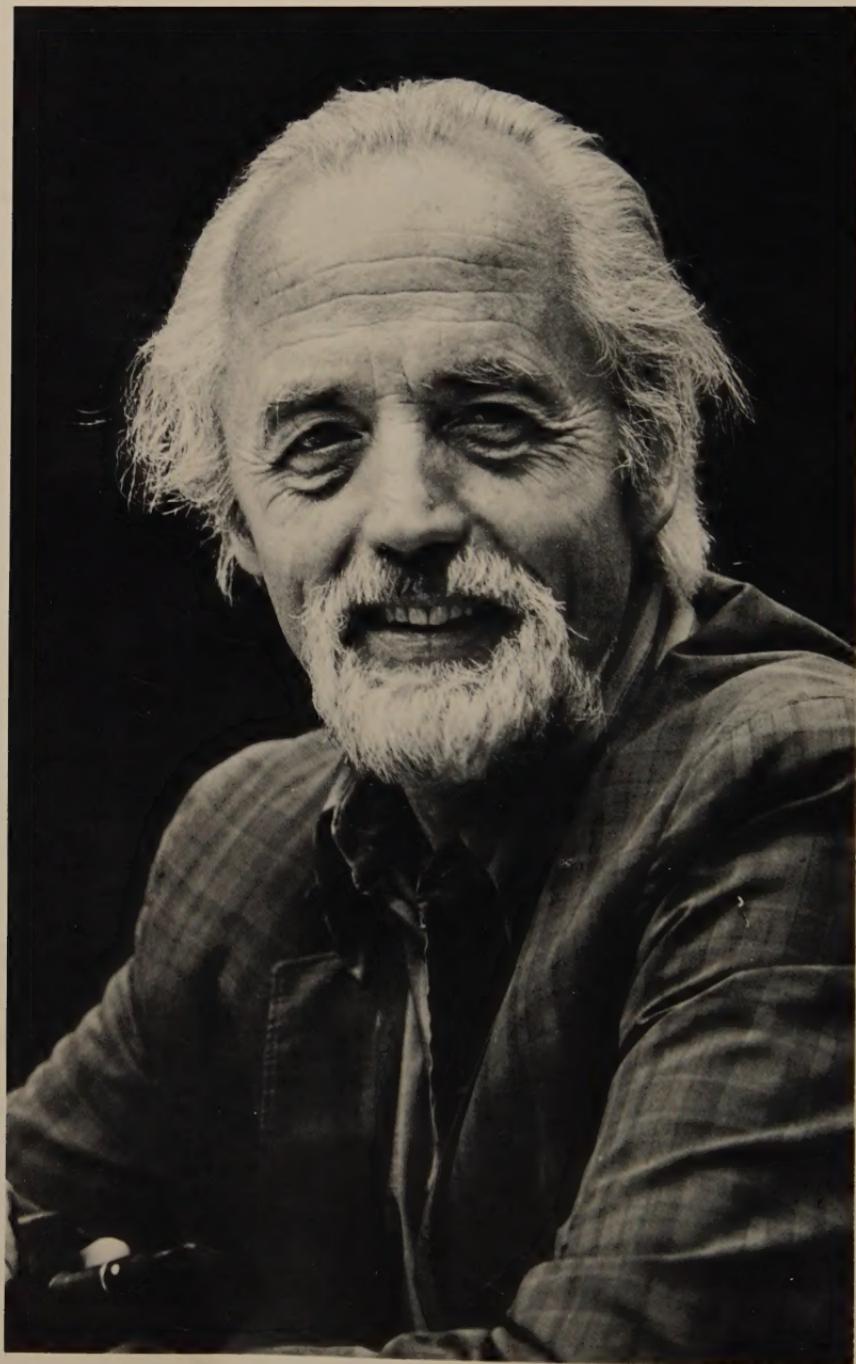
1992—BRUCE A. STEIN, The Nature Conservancy, Washington, D.C.
WILLIAM L. HALVORSON, Channel Islands National Park, Ventura, CA

1993—JON E. KEELEY, Occidental College, Los Angeles, CA
RHONDA L. RIGGINS, California Polytechnic State University, San Luis Obispo, CA

Editor—DAVID J. KEIL
Biological Sciences Department
California Polytechnic State University
San Luis Obispo, CA 93407

Published quarterly by the
California Botanical Society, Inc.
Life Sciences Building, University of California, Berkeley 94720

Printed by Allen Press, Inc., Lawrence, KS 66044



Dedicated to botanical pursuits, Art Kruckeberg has distinguished himself as an eminent student of edaphic ecology. His work on serpentine endemism is classic. Known throughout western North America as an intrepid field researcher, Art's expertise spans ecology, population biology, systematics, phytogeography, evolution, conservation biology, and horticulture. Long before it became fashionable to be interdisciplinary, he was building bridges between these different fields of study. As a respected teacher and mentor, he has challenged and stimulated many students and colleagues. Born and educated in California, he has spent all 40 years of his professional career at the University of Washington. It is a pleasure to pay tribute to his outstanding botanical contributions.—MELINDA F. DENTON, Department of Botany, University of Washington, Seattle, WA 98195. Photo provided by Douglass M. Henderson, Department of Biological Sciences, University of Idaho, Moscow, ID 83843.

TABLE OF CONTENTS

ALVERSON, EDWARD R., <i>Isopyrum stipitatum</i> (Ranunculaceae) in the Willamette Valley, Oregon	217
ARGUS, GEORGE W., <i>Salix scouleriana</i> (Salicaceae) in Sonora, Mexico	135
ARMSTRONG, WAYNE P., Noteworthy collections of <i>Wolffia</i>	283
BARTOLOME, JAMES W. (see McCLARAN, MITCHEL P.)	
BAYER, RANDALL J., A systematic and phytogeographic study of <i>Antennaria aromatica</i> and <i>A. densifolia</i> (Asteraceae: Inuleae) in the western North American cordillera	248
BECKING, RUDOLF W., Segregation of <i>Hastingsia serpentinicola</i> , sp. nov. from <i>Hastingsia alba</i> (Liliaceae: Asphodeloideae)	208
BOWCUTT, FREDERICA S., Reappraisal of the range of <i>Phacelia vallicola</i> (Hydrophyllaceae)	51
BREEDLOVE, DENNIS E., and JOSÉ LUIS LEÓN DE LA LUZ, A new species of <i>Daphnopsis</i> (Thymelaeaceae) from Baja California Sur, Mexico	266
BROICH, S. L., Chromosome numbers of North American <i>Lathyrus</i> (Fabaceae)	41
BUTTERWICK, MARY, Noteworthy collections of <i>Ephedra funerea</i> and <i>Melica imperfecta</i>	136
CARTER, ANNNETTA, Review of <i>Baja California Plant Field Guide</i> by Norman C. Roberts	287
CHADWICK, ANN, and DAVID J. KEIL, Noteworthy collection of <i>Prunus fasciculata</i> var. <i>fasciculata</i>	32
CHAMBERS, KENTON L., The taxonomic relationships of <i>Allocarya corallicarpa</i> (Boraginaceae)	280
CHAMBERS, KENTON, and JACQUELINE GREENLEAF, <i>Gentiana setigera</i> is the correct name for <i>G. bisetaea</i> (Gentianaceae)	49
CLARK, CURTIS (see HARRINGTON, DANIEL F.)	
CESKA, ADOLF (see SAVALE, W. F., Jr.)	
DENISON, STELLA S., and DALE W. MCNEAL, A re-evaluation of the <i>Allium sanbornii</i> (Alliaceae) complex	122
DEVINE, TIMOTHY B. (see Wagner, Warren H., Jr.)	
DOLAN, REBECCA W., and LAWRENCE F. LAPRÉ, Taxonomy of <i>Streptanthus</i> sect. <i>Biennes</i> , the <i>Streptanthus morrisonii</i> complex	33
DOMÍNGUEZ-CADENA, RAYMUNDO (see LEÓN DE LA LUZ, JOSÉ LUIS)	
DORN, ROBERT D., Typification of <i>Salix geyeriana</i> (Salicaceae)	135
ERTTER, BARBARA (see SHEVOCK, JAMES R.)	
FELGER, RICHARD S. (see REEDER, JOHN R.)	
GOTTLIEB, L. D., Floral pigmentation patterns in <i>Clarkia</i> (Onagraceae)	1
GREENLEAF, JACQUELINE (see CHAMBERS, KENTON)	
HALVORSON, WILLIAM L., Review of <i>North American Terrestrial Vegetation</i> edited by Michael G. Barbour and W. Dwight Billings	219
HAMMER, SAMUEL, Phytogeographical notes on acidophilous <i>Cladonia</i> species in California	169
HARRINGTON, DANIEL F., and CURTIS CLARK, Reduction in light reflectance of leaves of <i>Encelia densifolia</i> (Asteraceae) by trichome wetting 180	
HICKMAN, JAMES C., Points of View: Response to Reveal	218
HILSENBECK, RICHARD A., A new species of <i>Siphonoglossa</i> (Acanthaceae) and some infrageneric transfers	198
HILSENBECK, RICHARD A. (see RALSTON, BARBARA E.)	
HORN, SALLY P., Postfire vegetation development in the Costa Rican paramos	93
JOKERST, JAMES D. (see Shevock, James R.)	

JOYAL, ELAINE, Noteworthy collections of <i>Astragalus curvicarpus</i> var. <i>subglaber</i> , <i>Collomia debilis</i> var. <i>larsenii</i> , and <i>Rudbeckia occidentalis</i> var. <i>montana</i> from Oregon	53
JOYAL, ELAINE, <i>Myosotis latifolia</i> and not <i>M. sylvatica</i> (Boraginaceae) in California	131
KEELEY, JON E., Review of <i>The Biogeography of Fire in the San Bernardino Mountains of California—A Historical Study</i> by Richard A. Minnich	287
KELLEY, WALTER A., Comments and notes on <i>Portulaca</i> in California	281
KELLEY, WALTER A., and DIETER H. WILKEN, Several noteworthy collections from Colorado	285
KEIL, DAVID J., Review of <i>A Guide to Wildlife Habitats of California</i> by K. E. Mayer and W. F. Laudenslayer	57
KEIL, DAVID J. (see CHADWICK, ANN)	
KNIGHT, PAUL (see SPELLENBERG, RICHARD)	
KRUCKEBERG, A. R., Review of <i>Soil-Plant Relations: An Ecological Approach</i> by D. W. Jeffrey	219
KUIJT, JOB, A note on the germination and establishment of <i>Phoradendron californicum</i> (Viscaceae)	175
LANDRUM, LESLIE R., The generic position of <i>Myrtus alternifolia</i> and notes on <i>Calycolpus</i> (Myrtaceae)	9
LA PRÉ, LAWRENCE F. (see DOLAN, REBECCA W.)	
LEÓN DE LA LUZ, JOSÉ LUIS (see BREEDLOVE, DENNIS E.)	
LEÓN DE LA LUZ, JOSÉ LUIS, and RAYMUNDO DOMÍNGUEZ-CADENA, Flora of the Sierra de la Laguna, Baja California Sur, Mexico	61
LUCKOW, MELISSA, Review of <i>Trees and Shrubs of Trans-Pecos Texas</i> by A. Michael Powell	56
MASON, CHARLES T., Infraspecific name changes in <i>Limnanthes</i> (Limnanthaceae)	50
McCLARAN, MITCHEL P., and JAMES W. BARTOLOME, Effect of <i>Quercus douglasii</i> (Fagaceae) on herbaceous understory along a rainfall gradient	141
MCLEOD, MALCOLM G., Review of <i>Inventory of Rare and Endangered Vascular Plants of California</i> edited by James P. Smith and Ken Berg	54
MCNEAL, DALE W. (see Denison, Stella S.)	
NESOM, GUY L., <i>Macromeria alba</i> (Boraginaceae), a new species from Tamaulipas, Mexico	28
PARSONS, DAVID J., and THOMAS J. STOHLGREN, Effects of varying fire regimes on annual grasslands in the southern Sierra Nevada of California	154
PASSINI, MARIE-FRANOISE, and NICOLE PINEL, Ecology and distribution of <i>Pinus lagunae</i> in the Sierra de la Laguna, Baja California Sur, Mexico	84
PATTERSON, ROBERT, Taxonomic relationships of <i>Gilia maculata</i> (Polemoniaceae)	15
PETERSON, PAUL M., A re-evaluation of <i>Bealia mexicana</i> (Poaceae: Eragrostideae)	260
PHILLIPS, H. WAYNE, Noteworthy collection of <i>Goodyera repens</i>	174
PINEL, NICOLE (see PASSINI, MARIE-FRANÇOISE)	
PINKAVA, DONALD J., Review of <i>Colorado Flora: Western Slope</i> by William A. Weber	56
RALSTON, BARBARA E., and RICHARD A. HILSENBECK, Taxonomy of the <i>Opuntia schottii</i> complex (Cactaceae) in Texas	221
REEDER, JOHN R., and RICHARD S. FELGER, The <i>Aristida californica</i> - <i>glabrata</i> complex (Gramineae)	187
REVEAL, JAMES L., Points of View: On the modern death of David Douglas ..	137
SAVAGE, W. F., Jr., and ADOLF CESKA, Noteworthy collections of <i>Wolffia columbiana</i>	153
SCHIERENBECK, KRISTINA A., Noteworthy collection of <i>Polygonum marinense</i>	207

SCHMIDT, CLIFFORD L., Review of <i>Guide to the Regional Parks Botanic Garden</i> by Walter Knight and Irja Knight	54
SHELLY, J. STEPHEN, Biosystematic studies of <i>Phacelia capitata</i> (Hydrophylaceae), a species endemic to serpentine soils in southwestern Oregon	232
SHEVOCK, JAMES R., BARBARA ERTTER, and JAMES D. JOKERST, <i>Monardella beneolens</i> (Lamiaceae), a new species from the crest of the southern Sierra Nevada, California	271
SPELLENBERG, RICHARD, and PAUL KNIGHT, A new species of <i>Erigeron</i> (Asteraceae: Astereae) from central New Mexico	115
STOHLGREN, THOMAS J. (see PARSONS, DAVID J.)	
VINCENT, KARL A., Noteworthy collection of <i>Penstemon venustus</i> (Scrophulariaceae) from California	53
WAGNER, WARREN H., JR., and TIMOTHY B. DEVINE, Moonworts (<i>Botrychium</i> : Ophioglossaceae) in the Jonesville area, Butte and Tehama Counties, California	131
WILKEN, DIETER H. (see KELLEY, WALTER A., and DIETER H. WILKEN)	
WILSON, PAUL, Noteworthy collection of <i>Pallavicinia lyellii</i> (Hepaticae: Pallaviciniaceae) from California	53
ZIKA, PETER F., Noteworthy collection of <i>Panicum rigidulum</i>	207